Tech Solution Requests

Funded

- #2 FRS Scheduler
- #11 Non-Skid Deck Scrubber
- #21 Small Boat Target

Potential

- #39 Wearable Wireless Computer
- #48 Air Quality Monitoring

Funded: Tech Solutions #2: FRS Scheduler

Problem: Fleet Replacement Squadron ability to coordinate flight events. Examples of flight event considerations; student pre-req., instructor quals, range, ordnance, weather & crew rest.

Solution: Develop an automated process to produce optimized flight/trainer schedule with manual intervention options to allow flexibility for daily changes that occur during execution.

TECH Solutions program:

- Funded a program between NAWC TSD and a commercial vendor to deliver software to VFA-106 in FY 02.

#11: Non-Skid Deck Scrubber

Problem: Cleaning the non-skid surface on the carrier is time and labor intensive. Takes 100's of sailors with push brooms, detergent, & fire hoses working over two days.

Solution: Develop a non-skid scrubber that can adequately remove dirt, grease, and oil and restore the gripping effectiveness of the deck of aircraft carriers and large deck amphibs.

<u>TECH Solutions program:</u>

- Funded a program between NSWC Carderock and a commercial vendor to deliver a scrubber to CNAL in Oct '03.
- Scrubber has been demonstrated on USS TRUMAN and USS ENTERPRISE with excellent results. Continued work is proceeding on handling residue recovered in cleaning process

Funded: Tech Solutions #21: Small Boat Target

Problem: The need for an effective small arms (.50 cal, 25 mm chain guns, CIWS BLK 1B) training device for deploying surface ships that lack available, realistic targets.

Solution: Develop a target that is deployable, expendable, and towed by a roboski with a visual / electronic means to score rounds that hit the target.

<u>TECH Solutions program:</u>

- Funded a program for NFESC to provide a target to CNSL in FY 02.

#39: Wearable Wireless Computers

Problem: The need for maintainers to take voice, video, & data computing to the place of work, extending NMCI/IT-21 to the sailor on the deck plates and flight line.

Solution: The employment of Wearable Wireless Computers (WWC) to support the automation of flight line maintenance.

TECH Solutions program:

- Still under review by NRE.

Potential: Tech Solutions #48: Air Quality Monitoring

No Picture Available

Problem: Monitoring a submarine compartment after a fire takes 2 hours. Draeger tubes used to monitor 12 different species are expensive, shelf life limited, limited accuracy and subject to interference.

Solution: Provide simple hand held device(s) which provide appropriate analysis for life gases and trace species. To the maximum extent possible use common analyzers to satisfy requirements for weekly monitoring, gas free engineering, damage control

TECH Solutions program:

- Still under review by NRE.